

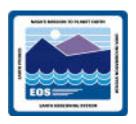
# Driving Requirements and Major New Features David Turanski

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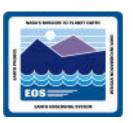
## **Road Map**



- Driving requirements
- Enhanced user functionality
- Data production
- Information management
- System management

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### Release B Driving Requirements



- Support all Release A functionality
- Support 6 additional DAACs and EOC
- Support for 7 new missions (access to products from 4 others)
- Increased data volume
- Distributed production dependencies
- Additional external interfaces and APIs
- Enhanced functionality

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# **Enhanced User Functionality**



#### Release B client

- Integrated tool set for X/Motif
- ASTER DAR client tool
- Web access to basic services, including search and order capabilities

#### **ESQL**

 Standard query language to augment GUI in providing spatial, temporal, and parameter queries

New and enhanced data type services

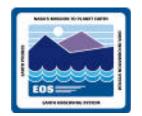
Subsetting, subsampling, averaging

#### **Session Management**

Suspend/ Resume

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#### **Data Production**



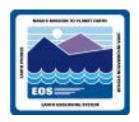
#### Order-of-magnitude more data

- Push volume
  - Rel A: ~52 GB/Day; Rel B: ~1 TB/Day
- Processing load
  - Rel A: ~5 GFlops
  - Rel B (includes 1x reprocessing): 29 GFlops
- On-demand processing
- High speed networking (HiPPI)
- Production subsetting and compression
- Predictive staging

#### **Distributed Production Dependencies**

- All ECS sites can access all production plans
- Subscription service may be used to notify dependent DAACs of updates to plan

# Information Management Capabilities



#### **Distributed Information Management**

- Cross-DAAC search capabilities for all ECS data
- Distributed coincident queries
- Interoperability with external (non-ECS) data sets

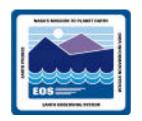
#### **Local Information Management**

- Unified view of multiple data collections at a single site
- Restricted access data sets
- DAAC configurable

#### **Two-way Interoperability**

- Implemented for ASTER GDS, V0 System, and ADCs
  - ASTER DARs and higher level products ordered via ECS client
  - ECS products available to ASTER users via V0 interface

# **System Management**



#### Enhanced management tool integration End-to-end request tracking

- Provides near real-time status of specific requests
  - User orders, ingest requests, system backups
- Supports resource utilization cost tracking

#### **Mode management**

- Supports concurrent operations and test
- Provides separate monitor and control of each mode

#### **Multiple DCE cell architecture**

Allows decentralized system administration
 Billing and accounting

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